

## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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SECURITY INFORMATION

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East Germany

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The German engineers, under the guidance of Groettrup, carried on various design work on German missiles at Institute 88, Podlipki, from October 1946 to March 1948. The Germans were divided into six separate groups, ie, power plant group, workshop group, design group, construction group, flak rocket design group, and gyro group. The actual number of groups was continually changing and at one time reached a total of eight groups

. The power plant group prepared reports and studies on various methods of improving the old German version with primary modifications being made in the piping and accessory section. This group also initiated a project whereby hot gases were bled from the combustion chamber of a V-2 power plant and utilized as the primary power source to drive the turbine. The turbine was to be started initially by compressed air and, after burning had started in the primary combustion chamber, the gases were to be bled off to the turbine.

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The workshop group designed and constructed a miniature model flak rocket. Certain tests were run with this model

The design group was primarily concerned with the redesigning of the center section and the accessory section of the V-2 missile. The tubing and electrical work was improved throughout the missile and a portion of the accessory section was either reduced or removed. Additional stringers were incorporated into the structure of the missile and the tanks made an integral part of the missile skin.

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The construction group worked on the redesign of the V-2 test stand that had been at Lehesten. The flak rocket design group worked on the testing of the model flak rocket along with the workshop and construction groups. The group also worked on the redesign of both the Schmetterling and Wasserfall rockets.

The primary mission of the gyro group was to design a new type of gyro for use in the V-2 missile. Although several new designs were developed, the group's efforts were finally diverted to improving the original V-2 gyro.

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the following information regarding "Sketch Project No 1" (missile designation R-10) and "Sketch Project No 2" (missile designation G-10) which were worked on at Gorodomya from 1949 -1951. The purpose of "Sketch Project No 1" was to redesign the V-2 missile with the following modifications:

- a. The "T" section of the accessory section was to be removed.
- b. Turbine was to be driven by gases bled from the main combustion chamber.
- c. Tubing throughout the missile was to be improved.
- d. Fuel tanks were to become an integral part of the skin structure.
- e. Warhead weight was to be increased.
- f. Fuel tank capacity was to be increased.
- g. Range was to be increased to 600 km.

The over-all length of the missile was to remain the same as the old German version of the V-2. The missile was to be launched from a vertical position with a flight path similar to the old V-2.

Regarding fuel used, kerosene was used during certain tests.

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The design and computation work was completed in approximately six months and presented to the Soviets in the form of written material, graphs, and drawings. "Sketch Plan No 2" was a design of a three-or four-stage missile with a range of 3000 km.

it was longer than the V-2, had wings (location unknown to me), and possessed several combustion chambers in the first stage. "Sketch Plan No 2" received little attention from either the Soviets or the Germans, but the "Sketch Plan No 1" was actively pursued by the Soviets.

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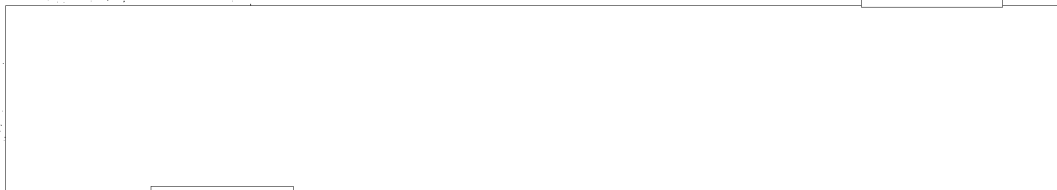
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1.  Comment: Probably Lehesten, Thuringia, Germany (SovZone).

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